



SUBSTITUTE FORM PTO-1449 (MODIFIED) 66605		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTY. DOCKET NO. IBM/04		SERIAL NO. 08/822 993							
SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT BY APPLICANT (37 C.F.R. 1.98(b)) Use several sheets if necessary)				APPLICANT Joseph P. Bigus et al.		#2							
				FILING DATE March 21, 1997		GROUP 2700							
U.S. PATENT DOCUMENTS													
EXAMINER INITIAL		PATENT NUMBER							ISSUE DATE	PATENTEE	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
C.D.	A.A	5	1	5	5	7	6	3	10/13/92	Bigus et al.	379	113	12/11/90
	A.B												
	A.C												
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	A.G												
	A.H												
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	A.J												
	A.K												
FOREIGN PATENTS OR PUBLISHED FOREIGN PATENT APPLICATIONS													
		DOCUMENT NUMBER		PUBLICATION DATE		COUNTRY OR PATENT OFFICE		CLASS		SUBCLASS		TRANSLATION (YES/NO)	
	A.L												
	A.M												
	A.N												
	A.O												
	A.P												
	A.Q												
OTHER DOCUMENTS (Including Author, Title, Date, Place of Publication)													
C.D.	A.R	Gilbert et al., "IBM Intelligent Agents", <a href="http://www.networking.ibm.com/iag/iagwp1.htm">http://www.networking.ibm.com/iag/iagwp1.htm</a> , (1996).											
C.D.	A.S	"Commercial Expert System Shells", <a href="http://www.ioe.ac.uk/hgm/expert3.html">http://www.ioe.ac.uk/hgm/expert3.html</a> , (1997).											
C.D.	A.T	"Commercial Software Packages for Neural Network Simulation", <a href="ftp://ftp.sas.com/pub/neural/FAQ6.html">ftp://ftp.sas.com/pub/neural/FAQ6.html</a> , (1997).											
EXAMINER		George Davis								DATE CONSIDERED 6/25/98			
EXAMINER: Initial if citation considered, whether or not in conformance. Draw line through citation only if not in conformance and not considered. Include a copy of this form with next communication to applicant.													

FORM PTO-1449 (Modified)  LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT  (Use several sheets if necessary)		ATTY. DOCKET NO. <b>RO996-052</b>	SERIAL NO. <b>08/822,993</b>
		APPLICANT: <b>Joseph P. Bigus et al.</b>	
		FILING DATE: <b>March 21, 1997</b>	GROUP: <del>Unassigned</del> <b>2700</b>

## REFERENCE DESIGNATION

## U.S. PATENT DOCUMENTS

EXAMINER INITIALS		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE (IF APPRO.)
<i>U.S.</i>	AA	4 9 1 4 5 8 5	04/03/90	Packard et al.	364	200	05/23/88
<i>U.S.</i>	AB	5 0 7 3 8 9 0	12/17/91	Peter J. Danielsen	370	58.2	12/30/88
<i>U.S.</i>	AC	5 1 1 7 4 9 6	05/26/92	Stearns et al.	395	700	05/23/88
<i>U.S.</i>	AD	5 2 2 6 1 7 6	07/06/93	Westaway et al.	395	800	08/20/90
<i>U.S.</i>	AE	5 2 3 5 6 4 2	08/10/93	Wobber et al.	380	25	07/21/92
<i>U.S.</i>	AF	5 2 4 1 6 2 1	08/31/93	Ronald G. Smart	395	51	06/26/91
<i>U.S.</i>	AG	5 2 7 6 7 6 8	01/04/94	James L. Bander	395	10	03/20/91
<i>U.S.</i>	AH	5 3 0 1 3 2 0	04/05/94	McAtee et al.	395	650	06/28/91
<i>U.S.</i>	AI	5 3 1 7 6 8 8	05/31/94	Ralph T. Watson et al.	395	161	02/26/93
<i>U.S.</i>	AJ	5 3 2 5 5 2 8	06/28/94	Johannes Klein	395	650	04/22/93
<i>U.S.</i>	AK	5 3 2 9 6 2 6	07/12/94	Klein et al.	395	375	10/23/90

## FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION	
							YES	NO
<del>U.S.</del>	<del>AL</del>	<del>W-093-2-1-58-6</del>	<del>10/28/93</del>					
<del>U.S.</del>	<del>AM</del>	<del>W-095-0-0-90-7</del>	<del>01/05/95</del>					
<del>U.S.</del>	<del>AN</del>	<del>W-095-0-2-21-7</del>	<del>01/19/95</del>					
<del>U.S.</del>	<del>AO</del>	<del>W-095-1-1-56-0</del>	<del>04/27/95</del>					
<del>U.S.</del>	<del>AP</del>	<del>W-095-1-5-63-5</del>	<del>06/08/95</del>					

## OTHER ART (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	A.D. Kwok et al., "A Development System for Intelligent Agent Manufacturing Software," Integrated Manufacturing Systems, 1994, Vol. 5 No. 4/5, pp. 64-76.
	AS	Barbara Hayes-Roth, "An architecture for adaptive intelligent systems," Artificial Intelligence, January 1995, Volume 72, Numbers 1-2, pp. 329-365.
	AT	Siegfried R. Bocionek, "Agent systems that negotiate and learn," International Journal of Human-Computer Studies, March 1995, Volume 42, No. 3, pp. 265-288.

EXAMINER

*George Davis*

DATE CONSIDERED

*6/25/98*

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<i>C. J.</i>	BA	5 3 6 7 4 5 4	11/22/94	Kawamoto et al.	364	419.20	06/25/93
<i>C. J.</i>	BB	5 3 6 7 6 3 5	11/22/94	Bauer et al.	395	200	08/29/91
<i>C. J.</i>	BC	5 3 7 1 8 8 9	12/06/94	Johannes Klein	395	650	04/22/93
<i>C. J.</i>	BD	5 3 9 2 3 4 5	02/21/95	Mary R. Otto	379	265	04/30/93
<i>C. J.</i>	BE	5 3 9 8 0 1 2	03/14/95	Jeffrey H. Derby et al.	340	825.03	11/24/92
<i>C. J.</i>	BF	5 4 0 8 4 7 0	04/18/95	Lewis V. Rothrock et al.	370	62	10/14/93
<i>C. J.</i>	BG	5 4 2 1 0 1 3	05/30/95	Curtis A. Smith	395	650	07/08/93
<i>C. J.</i>	BH	5 4 2 3 0 4 3	06/06/95	Fitzpatrick et al.	395	700	01/21/94
<i>C. J.</i>	BI	5 4 6 5 2 8 6	11/07/95	Clare et al.	379	34	05/24/94
<i>C. J.</i>	BJ	5 4 6 9 5 6 2	11/21/95	Christian D. Saether	395	182.18	06/26/92
<i>C. J.</i>	BK	5 4 8 1 6 9 9	01/02/96	Christian D. Saether	395	182.13	03/23/95

## FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION	
							YES	NO
<del>BL</del>	<del>2</del>	<del>0 6 1 1 1 7</del>	<del>02/12/92</del>	<del>Application for Canadian Patent</del>				
<del>BM</del>	<del>EP</del>	<del>0 51 9 10 9 A1</del>	<del>12/23/92</del>	<del>European</del>			X	
<del>BN</del>	<del>EP</del>	<del>0 58 9 24 9 A2</del>	<del>03/30/94</del>	<del>European</del>			X	
<del>BO</del>	<del>EP</del>	<del>0 59 8 53 4 A1</del>	<del>05/25/94</del>	<del>European</del>			X	
<del>BP</del>	<del>EP</del>	<del>0 61 1 21 0 A1</del>	<del>08/17/94</del>	<del>European</del>			X	

## OTHER ART (Including Author, Title, Date, Pertinent Pages, etc.)

<del>BR</del>	<del>Darrell Woelk et al., "Uncovering the next generation of active objects," OBJECT magazine, July/August 1995,</del>
	<del>pp. 32-40.</del>
<del>BS</del>	<del>Jan Ozer, "Totally Streaming Multimedia," CD-ROM Professional, August 1996, Volume 9, No. 8, pp. 54-66.</del>
<del>BT</del>	<del>Barbara Hayes-Roth et al., "A Domain-Specific Software Architecture for Adaptive Intelligent Systems,"</del>
	<del>IEEE Transactions on Software Engineering, April 1995, Vol. 21, No. 4, pp. 288-301.</del>

EXAMINER <i>George Davis</i>	DATE CONSIDERED <i>6/25/98</i>
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EXAMINER INITIALS		DOCUMENT NUMBER							DATE	NAME	CLASS	SUB- CLASS	FILING DATE (IF APPRO.)
<b>69</b>	CA	5	4	8	1	7	1	5	01/02/96	Hamilton et al.	395	700	12/15/93
<b>49</b>	CB	5	6	0	3	0	3	1	02/11/97	White et al.	395	683	07/08/93
	CC												
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	CI												
	CJ												
	CK												

## FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER							DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION	
													YES	NO
<del></del>	CL	JP	3	19	5	1	4	1	1991	Japan			X	
<del></del>	CM	JP	4	15	7	9	4	4	1992	Japan			X	
<del></del>	CN	JP	4	25	6	1	0	1	1992	Japan				X
<del></del>	CO	JP	5	32	4	0	0	9	1993	Japan				X
<del></del>	CP	JP	6	17	5	9	4	4	1994	Japan			X	

## OTHER ART (Including Author, Title, Date, Pertinent Pages, etc.)

<del></del>	CR	Glenn R. Stearns, "Agents and the HP NewWave Application Program Interface," Hewlett-Packard Journal, August 1989, pp. 32-37.
<del></del>	CS	T.J. Grant, "A review of Multi-Agent Systems techniques, with application to Columbus User Support Organisation," Future Generation Computer Systems, May 1992, Volume 7, Number 4, pp. 413- 437.
<del></del>	CT	Mufit Ozden, "Intelligent Objects in Simulation," ORSA Journal on Computing, Fall 1994, Vol. 6, No. 4, pp. 329-341

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FOREIGN PATENT DOCUMENTS

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							YES	NO
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	DP							

OTHER ART (Including Author, Title, Date, Pertinent Pages, etc.)

<del>DR</del>	<del>Peter Gibbons et al, "Intelligent Agents in Multi-Media Systems," Sharp Technical Journal, December 1994,</del>
	<del>Volume 60, pp. 11-14.</del>
<del>DS</del>	<del>Cristiano Castelfranchi, "Guarantees for Autonomy in Cognitive Agent Architecture," Proceedings of ECAI 94 Workshop</del>
	<del>on Agent Theories, Architectures, and Languages, Amsterdam, The Netherlands, August 8-9, 1994, pp. 56-70.</del>
<del>DT</del>	<del>Devindra Weerasooriya et al, "Design of a Concurrent Agent-Oriented Language," Proceedings of ECAI 94 Workshop</del>
	<del>on Agent Theories, Architectures, and Languages, Amsterdam, The Netherlands, August 8-9, 1994, pp. 386-401.</del>

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FORM PTO-1449 (Modified)

LIST OF PATENTS AND PUBLICATIONS FOR  
APPLICANT'S INFORMATION  
DISCLOSURE STATEMENT

(Use several sheets if necessary)

ATTY. DOCKET NO.  
R0996-052SERIAL NO. ~~087823,993~~ 0 8/22/993APPLICANT:  
Joseph P. Bigus et al.FILING DATE:  
March 21, 1997

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## REFERENCE DESIGNATION

## U.S. PATENT DOCUMENTS

EXAMINER INITIALS		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE (IF APPRO.)
	EA						
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## FOREIGN PATENT DOCUMENTS

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							YES	NO
	EL							
	EM							
	EN							
	EO							
	EP							

## OTHER ART (Including Author, Title, Date, Pertinent Pages, etc.)

	ER	<del>Agostino Poggi, "DAISY: an Object-Oriented System for Distributed Artificial Intelligence," Proceedings of ECAT-94</del>
		Workshop on Agent Theories, Architectures, and Languages, Amsterdam, The Netherlands, August 8-9, 1994, pp. 341-354.
	ES	<del>David Kinny et al, "Planned Team Activity," 4th European Workshop on Modelling Autonomous Agents in a Multi-Agent</del>
		World, MAAMAW '92, S. Martino al Cimino, Italy, July 29-31, 1992, pp. 227-256.
	ET	<del>Stephen Marsh, "Trust in Distributed Artificial Intelligence," 4th European Workshop on Modelling Autonomous Agents in</del>
		a Multi-Agent World, MAAMAW '92, S. Martino al Cimino, Italy, July 29-31, 1992, pp. 94-112.

EXAMINER

George Davis

DATE CONSIDERED

6/28/95

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REFERENCE DESIGNATION U.S. PATENT DOCUMENTS

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	FA						
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FOREIGN PATENT DOCUMENTS

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							YES	NO
	FL							
	FM							
	FN							
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OTHER ART (Including Author, Title, Date, Pertinent Pages, etc.)

	FR	Beerud Sheth et al, "Evolving Agents For Personalized Information Filtering," Proceedings of The Ninth Conference on Artificial Intelligence for Applications, Orlando, Florida, March 1-5, 1993, pp. 345-352.
	FS	Tremaine A.O. Cornish et al, "What Has Mill to Say about Data Mining?" Proceedings of The 11th Conference on Artificial Intelligence for Applications, Los Angeles, California, February 20-23, 1995, pp. 347-353.
	FT	Siegfried Bocionek, "Software Secretaries: Learning and Negotiating Personal Assistants for the Daily Office Work," Proceedings of IEEE Int'l. Conf. on Systems, Man and Cybernetics, San Antonio, Texas, Oct. 2-5, 1994, Vol. 1, pp. 7-12.

EXAMINER <b>George Davis</b>	DATE CONSIDERED <b>6/25/98</b>
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	GA						
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							YES	NO
	GL							
	GM							
	GN							
	GO							
	GP							

## OTHER ART (Including Author, Title, Date, Pertinent Pages, etc.)

	GR	Enrique D. Espinosa, "Intelligent Classroom Information Agent Multimedia Lab & Visual Guides for Datastructures II," Proceedings of the Int'l. Conf. on Multimedia Computing and Systems, Washington, D.C., May 15-18, 1995, pp. 302-305.
	GS	Rolf Pfeifer et al, "Distributed Adaptive Control: A Paradigm for Designing Autonomous Agents," Toward a Practice of Autonomous Systems, Proceedings of the First European Conf. on Artificial Life, Paris, France, Dec. 1991, pp. 21-30.
	GT	Alison Cawsey et al, "A Comparison of Architectures for Autonomous Multi-Agent Communication," Proceedings of 10th European Conference on Artificial Intelligence, Vienna, Austria, August 3-7, 1992, pp. 249-251.

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							YES	NO
	HL							
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	HO							
	HP							

OTHER ART (Including Author, Title, Date, Pertinent Pages, etc.)

	HR	<del>Paul Kearney et al, "Emergent Behaviour in a Multi-Agent Economic Situation," Proceedings of 11th European Conference</del>
		<del>on Artificial Intelligence, Amsterdam, The Netherlands, August 8-12, 1994, pp. 284-288.</del>
	HS	<del>Wayne Wobcke, "Reasoning about Action from the Perspective of Situation Semantics," Proceedings of the 6th Australian</del>
		<del>Joint Conference on Artificial Intelligence, Melbourne, Australia, November 16-19, 1993, pp. 71-76.</del>
	HT	<del>Gunilla A. Sundstrom et al, "Cooperative Human-Computer Decision Making: An Experiment and Some Design</del>
		<del>Implications," Proceedings of the Human Factors and Ergonomics Society 38th Annual Meeting, Nashville, Tennessee,</del>
		<del>October 24-28, 1994, pp. 220-224.</del>

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							YES	NO
	IL							
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OTHER ART (Including Author, Title, Date, Pertinent Pages, etc.)

	IR	T. Moody, "AT&T Personalink (SM) - A Public Network for Smart Agent Pics," IEE Colloquium on Roaming with Data, London, UK, March 6 1995, Digest No. 1995/046.
	IS	Lech Polkowski et al, "Introducing Rough Mereological Controllers: Rough Quality Control," Proceedings of RSSC '94 3rd Int'l. Workshop on Rough Sets and Soft Computing, San Jose, California, Nov. 10-12, 1994.
	IT	Terence J. Parr et al, "A Language for Creating and Manipulating VRML," pp. 123-131, Symposium on the VRML '95, San Jose, California, December 14-15, 1995.

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						YES	NO
JL							
JM							
JN							
JO							
JP							

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JR	Joseph P. Bigus, "Data Mining with Neural Networks", McGraw-Hill Publishing Company, 1996.
JS	David M. Chess, "Security Considerations in Agent-Based Systems," For the 1st Annual Conference on Emerging Technologies and Applications in Communications, Portland, Oregon, May 7-10, 1996.
JT	

EXAMINER

George Davis

DATE CONSIDERED

6/25/98

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.